

PATENT ABSTRACTS OF JAPAN

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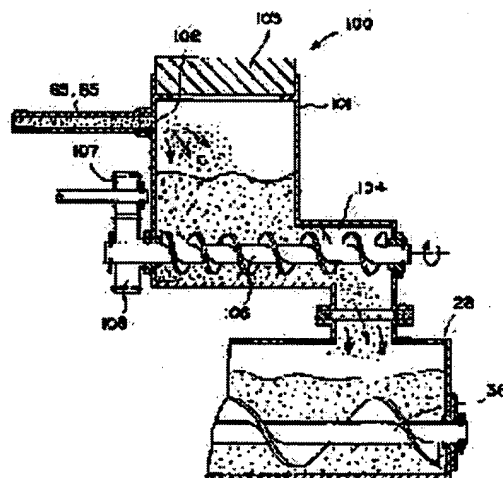
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(54) POWDER TRANSFERRING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the scattering of power at the destination of the powder by preventing the flow-in of air to the destination of the powder by securing a hermetically sealing performance with respect to the destination of the powder for the powder transferred by a powder pumping system by accumulating the powder in the space of an air separating device and making the flow-in part of air only the filter of an upper surface.

SOLUTION: Toner inside a toner housing case is introduced into a screw pump and is press-fed to a pipe 65 through the air from an air pump. An air separating device 100 has a closed container 101, and the pipe 65 is connected to an introducing hole 102 near the upper part. The upper part of the closed container 101 is covered with a filter 103, and a path 104 leading to the upper part of the toner replenishing part 28 of a developing device and nearly horizontally extended is formed at a bottommost part, and a carrying screw 105 is arranged. The air separating device 100 constituted in such a way replenishes the toner to the developing device in a state where the air is discharged from the filter 103, so that the scattering of the toner caused by air at the time of replenishing with the toner is prevented.



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